



#9

SEQUENCE LISTING

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<120> Neuroprotective Peptides

<130> ORT1436

<140> 09/863,600

<141> 2001-05-23

<160> 49

<170> PatentIn Ver. 2.1

<210> 1

<211> 10

<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<221> variant

<222> 1, 2, 3, 6, 9, 10

<223> 1 is Cys, Glu, Ala, a-amino gamma bromobutyric acid, homocysteine, 2 is Arg, His, Tyr, Leu, Val, 3 is Met, Phe, Ile, 6 is any L or D amino acid, 9 is Asp, Glu, Ile, Leu, Val, 10 is Cys, Lys, Ala, alfa amino gamma bromobutyric acid, homocysteine

<400> 1

Xaa Xaa Xaa Gly Pro Xaa Thr Trp Xaa Xaa
1 5 10

<210> 2

<211> 12

<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<221> variant

<222> 2, 3, 4, 5, 8, 11, 12

<223> 2, 4, 5, 11 and 12 is any L or D amino acid, 3 and 8 is Cys

<400> 2

Tyr Xaa Xaa Xaa Xaa Gly Pro Xaa Thr Trp Xaa Xaa
1 5 10

<210> 3
<211> 16
<212> PRT
<213> Artificial Sequence

<220> synthetic peptide
<221> variant
<222> 1, 3, 4, 5, 6, 9, 12, 13, 14, 15, 16
<223> 1, 3, 9, 13, 14, 15 is any L or D amino acid, 4 is Cys, Glu, Ala, 5 is
Agr, His, Tyr, 6 is Met, Phe, Ile, 12 is Cys, Lys, Ala

<400> 3

Xaa Tyr Xaa Xaa Xaa Xaa Gly Pro Xaa Thr Trp Xaa Xaa Xaa Xaa Xaa
1 5 10 15

<210> 4
<211> 16
<212> PRT
<213> Artificial Sequence

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<221> variant
<222> 1, 3, 5, 6, 9, 12, 14, 15, 16
<223> 1, 3, 9, 14, 15, 16 is any L or D amino acid, 5 is Arg, His, or Tyr, 6 is
Met, Phe, or Ile, 12 is Cys, Lys, or Ala

<400> 4

Xaa Tyr Xaa Cys Xaa Xaa Gly Pro Xaa Thr Trp Xaa Cys Xaa Xaa Xaa
1 5 10 15

<210> 5
<211> 16
<212> PRT
<213> Artificial Sequence

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<221> variant
<222> 1, 3, 5, 6, 9, 12, 14, 15, 16
<223> 1, 3, 13, 16 is any L or D amino acid, 4 is Cys, Glu, Ala, 5 is Arg, His,
6 is Met, Phe, 9 is Ile, Leu, Thr, Met, Val, 12 is Asp, Val, 14 is Gly, Lys,
Leu, Gln, Arg, Ser, Thr, 15 is Ala, Gly, Pro, Arg, Tyr

<400> 5

Xaa Tyr Xaa Cys Xaa Xaa Gly Pro Xaa Thr Trp Xaa Cys Xaa Xaa Xaa
1 5 10 15

<210> 6
<211> 16
<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<221> variant

<222> 1, 3, 5, 6, 9, 12, 14, 15, 16

<223> 6, 9, 12, 16 is any L or D amino acid, 1 is Asp, Glu, Leu, Asn, Ser, Thr, Val, 3 is Ala, His, Lys, Leu, Met, Ser, Thr, 5 is Arg, His, 14 is Lys, Arg, Ser, Thr, 15 is Pro

<400> 6

Xaa Tyr Xaa Cys Xaa Xaa Gly Pro Xaa Thr Trp Xaa Cys Xaa Xaa Xaa
1 5 10 15

<210> 7

<211> 20

<212> PRT

<213> Artificial Sequence

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<400> 7

Gly Gly Leu Tyr Leu Cys Arg Phe Gly Pro Val Thr Trp Asp Cys Gly
1 5 10 15

Tyr Lys Gly Gly
20

<210> 8

<211> 20

<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<400> 8

Gly Gly Thr Tyr Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys
1 5 10 15

Pro Gln Gly Gly
20

<210> 9

<211> 20

<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<400> 9

Gly Gly Asp Tyr His Cys Arg Met Gly Pro Leu Thr Trp Val Cys Lys

1 5 10 15
Pro Leu Gly Gly
20

<210> 10
<211> 20
<212> PRT
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<400> 10

Val Gly Asn Tyr Met Cys His Phe Gly Pro Ile Thr Trp Val Cys Arg
1 5 10 15

Pro Gly Gly Gly
20

<210> 11
<211> 20
<212> PRT
<213> Artificial Sequence

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<400> 11

Gly Gly Val Tyr Ala Cys Arg Met Gly Pro Ile Thr Trp Val Cys Ser
1 5 10 15

Pro Leu Gly Gly
20

<210> 12
<211> 19
<212> PRT
<213> Artificial Sequence

<220> synthetic peptide

<400> 12

Val Gly Asn Tyr Met Ala His Met Gly Pro Ile Thr Trp Val Cys Arg
1 5 10 15

Pro Gly Gly

<210> 13
<211> 18
<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<400> 13

Gly	Gly	Thr	Tyr	Ser	Cys	His	Phe	Gly	Pro	Leu	Thr	Trp	Val	Cys	Lys
1				5					10					15	

Pro Gln

<210> 14

<211> 20

<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<400> 14

Gly	Gly	Leu	Tyr	Ala	Cys	His	Met	Gly	Pro	Met	Thr	Trp	Val	Cys	Gln
1				5					10					15	

Pro Leu Arg Gly
20

<210> 15

<211> 22

<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<400> 15

Thr	Ile	Ala	Gln	Tyr	Ile	Cys	Tyr	Met	Gly	Pro	Glu	Thr	Trp	Glu	Cys
1				5					10					15	

Arg Pro Ser Pro Lys Ala
20

<210> 16

<211> 13

<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<400> 16

Tyr	Ser	Cys	His	Phe	Gly	Pro	Leu	Thr	Trp	Val	Cys	Lys
1				5					10			

<210> 17
<211> 11
<212> PRT
<213> Artificial Sequence

<220> synthetic peptide

<400> 17

Tyr Cys His Phe Gly Pro Leu Thr Trp Val Cys
1 5 10

<210> 18
<211> 12
<212> PRT
<213> Artificial Sequence

<220> synthetic peptide

<400> 18

Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys
1 5 10

<210> 19
<211> 20
<212> PRT
<213> Artificial Sequence

<220> synthetic peptide

<400> 19

Gly Gly Thr Ala Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys
1 5 10 15

Pro Gln Gly Gly
20

<210> 20
<211> 20
<212> PRT
<213> Artificial Sequence

<220> synthetic peptide

<400> 20

Gly Gly Thr Tyr Ser Cys His Phe Ala Pro Leu Thr Trp Val Cys Lys
1 5 10 15

Pro Gln Gly Gly
20

<210> 21
<211> 19
<212> PRT
<213> Artificial Sequence

<220> synthetic peptide

<400> 21

Gly Gly Thr Tyr Ser Cys Phe Gly Pro Leu Thr Trp Val Cys Lys Pro
1 5 10 15

Gln Gly Gly

<210> 22
<211> 18
<212> PRT
<213> Artificial Sequence

<220> synthetic peptide

<400> 22

Thr Tyr Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys Pro Gln Gly
1 5 10 15

Gly

<210> 23
<211> 16
<212> PRT
<213> Artificial Sequence

<220> synthetic peptide

<400> 23

Thr Tyr Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys Pro Gln
1 5 10 15

<210> 24
<211> 14
<212> PRT
<213> Artificial Sequence

<220> synthetic peptide

<400> 24

Tyr Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys Pro
1 5 10

<210> 25
<211> 12
<212> PRT
<213> Artificial Sequence

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<400> 25

Tyr Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys
1 5 10

<210> 26
<211> 13
<212> PRT
<213> Artificial Sequence

<220> synthetic peptide

<400> 26

Tyr Ser Cys His Phe Gly Ala Leu Thr Trp Val Cys Lys
1 5 10

<210> 27
<211> 14
<212> PRT
<213> Artificial Sequence

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<400> 27

Gly Gly Cys Arg Ile Gly Pro Ile Thr Trp Val Cys Gly Gly
1 5 10

<210> 28
<211> 8
<212> PRT
<213> Artificial Sequence

<220> synthetic peptide

<400> 28

His Phe Gly Pro Leu Thr Trp Val
1 5

<210> 29
<211> 20
<212> PRT
<213> Artificial Sequence

<220> synthetic peptide

<400> 29

Gly Gly Thr Thr Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys Pro
1 5 10 15

Gln Gly Gly
20

<210> 30

<211> 20

<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<400> 30

Gly Gly Thr Phe Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys Pro
1 5 10 15

Gln Gly Gly
20

<210> 31

<211> 20

<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<400> 31

Gly Gly Thr Tyr Ser Cys His Phe Gly Ala Leu Thr Trp Val Cys Lys Pro
1 5 10 15

Gln Gly Gly
20

<210> 32

<211> 20

<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<400> 32

Gly Gly Thr Tyr Ser Cys His Phe Gly Pro Ala Thr Trp Val Cys Lys Pro
1 5 10 15

Gln Gly Gly

20

<210> 33
<211> 20
<212> PRT
<213> Artificial Sequence

<220> synthetic peptide

<400> 33

Gly Gly Thr Tyr Ser Cys His Phe Gly Pro Leu Ala Trp Val Cys Lys Pro
1 5 10 15

Gln Gly Gly
20

<210> 34
<211> 20
<212> PRT
<213> Artificial Sequence

<220> synthetic peptide

<400> 34

Gly Gly Thr Tyr Ser Cys His Phe Gly Pro Leu Thr Ala Val Cys Lys Pro
1 5 10 15

Gln Gly Gly
20

<210> 35
<211> 20
<212> PRT
<213> Artificial Sequence

<220> synthetic peptide

<400> 35

Gly Gly Thr Tyr Ser Cys His Phe Gly Pro Leu Thr Phe Val Cys Lys Pro
1 5 10 15

Gln Gly Gly
20

<210> 36
<211> 20
<212> PRT
<213> Artificial Sequence

<220> synthetic peptide

<400> 36

Gly Gly Thr Tyr Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys Ala
1 5 10 15

Gln Gly Gly
20

<210> 37

<211> 20

<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<221> variant

<222> 4

<223> D-Tyr

<400> 37

Gly Gly Thr Xaa Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys Pro
1 5 10 15

Gln Gly Gly
20

<210> 38

<211> 20

<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<221> variant

<222> 4

<223> p-NO₂-Phe

<400> 38

Gly Gly Thr Xaa Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys Pro
1 5 10 15

Gln Gly Gly
20

<210> 39

<211> 20

<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<221> variant

<222> 4

<223> p-NH₂-Phe

<400> 39

Gly Gly Thr Xaa Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys Pro
1 5 10 15

Gln Gly Gly
20

<210> 40

<211> 20

<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<221> variant

<222> 4

<223> p-F-Phe

<400> 40

Gly Gly Thr Xaa Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys Pro
1 5 10 15

Gln Gly Gly
20

<210> 41

<211> 20

<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<221> variant

<222> 4

<223> p-I-Phe

<400> 41

Gly Gly Thr Xaa Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys Pro
1 5 10 15

Gln Gly Gly
20

<210> 42

<211> 20

<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<221> variant

<222> 4

<223> 3,5-dibromo-Tyr

<400> 42

Gly Gly Thr Xaa Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys Pro
1 5 10 15

Gln Gly Gly
20

<210> 43

<211> 20

<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<221> variant

<222> 1

<223> Ac-Gly

<400> 43

Xaa Gly Thr Tyr Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys Pro
1 5 10 15

Gln Gly Gly
20

<210> 44

<211> 20

<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<400> 44

Gly Gly Leu Tyr Ala Cys His Met Gly Pro Met Thr Trp Val Cys Gln Pro
1 5 10 15

Leu Gly Gly
20

<210> 45

<211> 22

<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<400> 45

Leu Gly Arg Lys Tyr Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Gln
1 5 10 15

Pro Ala Lys Lys Asp
20

<210> 46
<211> 20
<212> PRT
<213> Artificial Sequence

<220> synthetic peptide

<400> 46

Gly Gly Thr Tyr Ser Glu His Phe Gly Pro Leu Thr Trp Val Lys Lys Pro
1 5 10 15

Gln Gly Gly
20

<210> 47
<211> 8
<212> PRT
<213> Artificial Sequence

<220> synthetic peptide

<221> variant

<222> 1, 2, 3, 4, 5, 6, 7, 8

<223> 1 is Arg, His, Tyr, Leu, Trp, 2 is Phe, Met, Ile, 3 is Gly, Ala, 4 is Pro, Ala, 5 is any L or D amino acid, 6 is Thr, Ala, 7 is Trp, Ala, Phe, 8 is Asp, Val, Glu, Ile, Leu

<400> 47

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 48
<211> 8
<212> PRT
<213> Artificial Sequence

<220> synthetic peptide

<221> variant

<222> 1, 2, 5, 8

<223> 1 is Arg, His, Tyr, Leu, Trp, 2 is Phe, Met, Ile, 5 is any L or D amino acid, 8 is Asp, Val, Glu, Ile, Leu

<400> 48

Xaa Xaa Gly Pro Xaa Thr Trp Xaa
1 5

<210> 49
<211> 12

<212> PRT

<213> Artificial Sequence

<220> synthetic peptide

<221> variant

<222> 1, 2, 3, 4, 5, 8, 11, 12

<223> 1 is D-Tyr, p-NO₂-Phe, p-NH₂-Phe, p-F-Phe, p-I-Phe, 3,5-dibromo-Tyr, 2 and 8 is any L or D amino acid, 3 is Cys, Glu, Ala, (-amino-(-bromobutyric acid, homocysteine, 4 is Arg, His, Tyr, Leu, Trp, 5 is Phe, Met, Ile, 12 is Cys, Lys, Ala, (-amino-(-bromobutyric acid, homocysteine, 11 is Asp, Glu, Val, Ile, Leu

<400> 49

Xaa Xaa Xaa Xaa Xaa Gly Pro Xaa Thr Trp Xaa Xaa

1

5

10